


IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Yasuo SHIBATA et al.)	
)	
Appln No.:	)	<u>CERTIFICATE OF MAILING BY "EXPRESS MAIL"</u>
	)	"Express Mail" Mailing Label Number
Filed: Concurrently herewith	)	<u>EL 961 662 532 US</u>
	)	Date of Deposit <u>April 13, 2004</u>
For: LIGHT-CONTROLLED LIGHT MODULATOR	)	I hereby certify that this paper or fee is being deposited
	)	with sufficient postage utilizing the United States
Art Unit:	)	Postal Service "Express Mail Post Office to Addressee"
	)	Service under 37 CFR §1.10 on the date indicated
	)	above and is addressed to the Commissioner for
	)	Patents, P.O. Box 1450, Alexandria, VA 22313-1450.
Examiner:	)	<u>Edward Price</u>
	)	(Typed or printed name of person mailing)
)	
	)	(Signature of person mailing)
Attorney Docket No.: 82696)	
)	
Customer No.: 22242)	

Mail Stop PATENT APPLICATION
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to the duty of disclosure under 37 CFR § 1.56, and in accordance with 37 CFR §§ 1.97 and 1.98, Applicants bring the following information with respect to the above-identified application to the attention of the Examiner.

U.S. PATENT DOCUMENTS

<u>Document Number</u>	<u>Publication Date</u>	<u>Patentee/Applicant</u>
US-5,754,714	05/19/1998	Suzuki et al.
US-5,999,293	12/07/1999	Manning

Yasuo SHIBATA et al.
Filed concurrently herewith
INFORMATION DISCLOSURE STATEMENT

FOREIGN PATENT DOCUMENTS

<u>Document Number</u>	<u>Publication Date</u>	<u>Patentee / Applicant</u>
WO 99/25081	05/20/1999	Boffi et al.

NON PATENT LITERATURE DOCUMENTS

EISELT, M., "Optical Loop Mirror With Semiconductor Laser Amplifier", *Electronics Letters*, Vol. 28, No. 16, 30th July 1992, pp. 1505-1507.

EISELT, M. et al., "All-Optical High Speed Demultiplexing With A Semiconductor Laser Amplifier In A Loop Mirror Configuration", *Electronics Letters*, Vol. 29, No. 13, pp. 1167-1168.

DURHUUS, T. et al., "All Optical Wavelength Conversion by SOA's in a Mach-Zehnder Configuration", *IEEE Photonics Technology Letters*, Vol. 6, No. 1, January 1994, pp. 53-55.

RATOVELOMANANA, F. et al., "An All-Optical Wavelength-Converter with Semiconductor Optical Amplifiers Monolithically Integrated in an Asymmetric Passive Mach-Zehnder Interferometer", *IEEE Photonics Technology Letters*, Vol. 7, No. 10, October 1995, pp. 992-994.

EISELT, M. et al., "SLALOM: Semiconductor Laser Amplifier in a Loop Mirror", *Journal of Lightwave Technology*, Vol. 13, No. 10, October 1995, pp. 2099-2112.

JAHN, E. et al., "Monolithically Integrated Nonlinear Sagnac Interferometer and Its Application as a 20 Gbit/s All-Optical Demultiplexer", *Electronics Letters*, Vol. 32, No. 9, 25th April 1996, pp. 782-784.

DENG, Kung-Li et al., "Single-Shot Optical Sampling Oscilloscope for Ultrafast Optical Waveforms", *IEEE Photonics Technology Letters*, Vol. 10, No. 3, March 1998, pp. 397-399.

UENO, Y. et al., "New Wavelength Converter For Picosecond RZ Pulses", *Optoelectronics and High-Frequency Device Research Labs, NEC Corp.*, ECOC '98, 20-24 September 1998, Madrid, Spain, pp. 1-2.

Yasuo SHIBATA et al.
Filed concurrently herewith
INFORMATION DISCLOSURE STATEMENT

NON PATENT LITERATURE DOCUMENTS

NESSET, Derek et al., "All-Optical Wavelength Conversion Using SOA Nonlinearities", *IEEE Communications Magazine*, December 1998, pp. 56-61.

LEUTHOLD, J. et al., "Compact and Fully Packaged Wavelength Converter with Integrated Delay Loop for 40 Gbit/s RZ Signals", *Bell Labs, Lucent Technologies*, pp. PD17-1 - PD17-3.

UENO, Y. et al., "168-Gb/s OTDM Wavelength Conversion Using An SMZ-Type All-Optical Switch", *Optoelectronics and High Frequency Device Research Labs, NEC Corporation*, 2 pages.

LEUTHOLD, J. et al., "100 Gbit/s All-Optical Wavelength Conversion with Integrated SOA Delayed-Interference Configuration", *Electronics Letters*, Vol. 36, No. 13, 22nd June 2000, 2 pages.

LEUTHOLD, J. et al., "All-Optical Wavelength Conversion up to 100 Gbit/s with SOA Delayed-Interference Configuration", *Bell Labs, Lucent Technologies*, 2 pages.

JIANG, Leaf A. et al., "Sampling Pulses with Semiconductor Optical Amplifiers", *IEEE Journal of Quantum Electronics*, Vol. 37, No. 1, January 2001, pp. 118-126.

SHIBATA, Yasuo et al., "Filter-free Wavelength Conversion using a Sagnac Interferometer Integrated with Parallel Amplifiers Structure (SIPAS)", *Proceedings of OECC/IOOC 2001 Conference*, 2-5 July 2002, pp. 212-213.

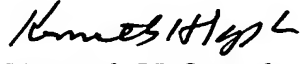
European Search Report dated 15 January 2003 for Application Number EP 01 12 2297, 4 pages.

The above documents are listed on Form PTO/SB/08 which accompanies this Information Disclosure Statement. In accordance with 37 CFR § 1.98(a)(2), enclosed is a copy of each foreign patent and non-patent literature document listed.

Yasuo SHIBATA et al.
Filed concurrently herewith
INFORMATION DISCLOSURE STATEMENT

Pursuant to 37 CFR § 1.97(h), the filing of this Information Disclosure Statement shall not be construed to be an admission that the information cited in the statement is, or is considered to be, material to patentability as defined in 37 CFR § 1.56(b).

Respectfully submitted,
FITCH, EVEN, TABIN & FLANNERY

By 
Kenneth H. Samples
Registration No. 25,747

April 13, 2004

Suite 1600
120 South LaSalle Street
Chicago, Illinois 60603-3406
(312) 577-7000

PTO/SB/08A Substitute for Form PTO-1449 INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Application Number		
				Filing Date		Concurrently herewith
				First Named Inventor		Yasuo SHIBATA et al.
				Art Unit		
				Examiner Name		
Sheet	1	of	3	Attorney Docket	82696	

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ²			
		US-5,754,714	05/19/1998	Suzuki et al.	
		US-5,999,293	12/07/1999	Manning	
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵				
		WO 99/25081	05/20/1999	Boffi et al.		

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kind Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04.

³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08B Substitute for Form PTO-1449 INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Application Number		
				Filing Date		Concurrently herewith
				First Named Inventor		Yasuo SHIBATA et al.
				Art Unit		
				Examiner Name		
Sheet	2	of	3	Attorney Docket	82696	

NON PATENT LITERATURE DOCUMENTS						
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published				T ²
		EISELT, M., "Optical Loop Mirror With Semiconductor Laser Amplifier", <i>Electronics Letters</i> , Vol. 28, No. 16, 30th July 1992, pp. 1505-1507.				
		EISELT, M. et al., "All-Optical High Speed Demultiplexing With A Semiconductor Laser Amplifier In A Loop Mirror Configuration", <i>Electronics Letters</i> , Vol. 29, No. 13, pp. 1167-1168.				
		DURHUUS, T. et al., "All Optical Wavelength Conversion by SOA's in a Mach-Zehnder Configuration", <i>IEEE Photonics Technology Letters</i> , Vol. 6, No. 1, January 1994, pp. 53-55.				
		RATOVELOMANANA, F. et al., "An All-Optical Wavelength-Converter with Semiconductor Optical Amplifiers Monolithically Integrated in an Asymmetric Passive Mach-Zehnder Interferometer", <i>IEEE Photonics Technology Letters</i> , Vol. 7, No. 10, October 1995, pp. 992-994.				
		EISELT, M. et al., "SLALOM: Semiconductor Laser Amplifier in a Loop Mirror", <i>Journal of Lightwave Technology</i> , Vol. 13, No. 10, October 1995, pp. 2099-2112.				
		JAHN, E. et al., "Monolithically Integrated Nonlinear Sagnac Interferometer and Its Application as a 20 Gbit/s All-Optical Demultiplexer", <i>Electronics Letters</i> , Vol. 32, No. 9, 25th April 1996, pp. 782-784.				
		DENG, Kung-Li et al., "Single-Shot Optical Sampling Oscilloscope for Ultrafast Optical Waveforms", <i>IEEE Photonics Technology Letters</i> , Vol. 10, No. 3, March 1998, pp. 397-399.				
		UENO, Y. et al., "New Wavelength Converter For Picosecond RZ Pulses", <i>Optoelectronics and High-Frequency Device Research Labs, NEC Corp.</i> , ECOC '98, 20-24 September 1998, Madrid, Spain, pp. 1-2.				
		NESSET, Derek et al., "All-Optical Wavelength Conversion Using SOA Nonlinearities", <i>IEEE Communications Magazine</i> , December 1998, pp. 56-61.				
		LEUTHOLD, J. et al., "Compact and Fully Packaged Wavelength Converter with Integrated Delay Loop for 40 Gbit/s RZ Signals", <i>Bell Labs, Lucent Technologies</i> , pp. PD17-1 - PD17-3.				
		UENO, Y. et al., "168-Gb/s OTDM Wavelength Conversion Using An SMZ-Type All-Optical Switch", <i>Optoelectronics and High Frequency Device Research Labs, NEC Corporation</i> , 2 pages.				

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08B Substitute for Form PTO-1449 INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Application Number		
				Filing Date		Concurrently herewith
				First Named Inventor		Yasuo SHIBATA et al.
				Art Unit		
				Examiner Name		
Sheet	3	of	3	Attorney Docket	82696	

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
		LEUTHOLD, J. et al., "100 Gbit/s All-Optical Wavelength Conversion with Integrated SOA Delayed-Interference Configuration", <i>Electronics Letters</i> , Vol. 36, No. 13, 22nd June 2000, 2 pages.	
		LEUTHOLD, J. et al., "All-Optical Wavelength Conversion up to 100 Gbit/s with SOA Delayed-Interference Configuration", <i>Bell Labs, Lucent Technologies</i> , 2 pages.	
		JIANG, Leaf A. et al., "Sampling Pulses with Semiconductor Optical Amplifiers", <i>IEEE Journal of Quantum Electronics</i> , Vol. 37, No. 1, January 2001, pp. 118-126.	
		SHIBATA, Yasuo et al., "Filter-free Wavelength Conversion using a Sagnac Interferometer Integrated with Parallel Amplifiers Structure (SIPAS)", <i>Proceedings of OECC/IOOC 2001 Conference</i> , 2-5 July 2002, pp. 212-213.	
		European Search Report dated 15 January 2003 for Application Number EP 01 12 2297, 4 pages.	

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.
¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.